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TITLE: Plant growth regulating activities of
2-[2-(arylamino)-2-oxoethyl]benzoic acids
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AB 2-[2-[(Alkoxy carbonyl)- and 2-[2-[(alkylaminocarbonyl)phenylamino]-2-oxoethyl]benzoic acids, and 2-[2-[(4-dibutylaminosulfonyl-phenylamino)-2-oxoethyl]benzoic acid showed a much lower antigravitropic activity than the reference compound 1-naphthylphthalamic acid. Among them, the relatively most active compds. were the tert-butoxycarbonyl derivs. and the 2-[2-[3,5-diethoxycarbonyl)phenylamino]-2-oxoethyl]benzoic acid; the remaining derivs. showed lower activities, all of the same order, no matter the size of the alkyl group nor the halogen substitution on the Ph group. This trend could be explained by the different rates of hydrolysis of the esters and amides to inactive compds., such as the 2-[2-(4-carboxyphenylamino)-2-oxoethyl]benzoic acid; slower rate of hydrolysis in the more hindered tert-butylic esters could account for their higher activities.

IT 149706-32-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and antigravitropic activity of, structure in relation to)

RN 149706-32-1 CAPLUS

CN Benzoic acid, 2-[2-oxo-2-(5-quinolinylamino)ethyl]- (9CI) (CA INDEX NAME)

